

Date: Tue, 9 Nov 93 04:30:30 PST
From: Ham-Equip Mailing List and Newsgroup <ham-equip@ucsd.edu>
Errors-To: Ham-Equip-Errors@UCSD.Edu
Reply-To: Ham-Equip@UCSD.Edu
Precedence: Bulk
Subject: Ham-Equip Digest V93 #98
To: Ham-Equip

Ham-Equip Digest Tue, 9 Nov 93 Volume 93 : Issue 98

Today's Topics:

 FT-690RII info wanted
 Gell cells for HTs (3 msgs)
 Modification of SR210 (150W SSB HF RTX)
 Plectron moved to Imboden, Arkansas
 Programming Motorola Radios
 Request for Motorola Mods
 Stolen ICOM 2-meter
 Type Accepted ham HT's??
 worthless to 10m

Send Replies or notes for publication to: <Ham-Equip@UCSD.Edu>
Send subscription requests to: <Ham-Equip-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Equip Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-equip".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Mon, 8 Nov 1993 18:20:08 GMT
From: spsgate!mogate!newsgate!hofbrau.sps.mot.com!a229aa@uunet.uu.net
Subject: FT-690RII info wanted
To: ham-equip@ucsd.edu

I am looking for info, tips, comments, mods, etc. for FT-690RII
(or it's cousins, FT-290, FT-790)

* Chris Terwilliger, AA7WD	a229aa@email.sps.mot.com *
* Motorola	"And now, *
* Phoenix Corporate Research Labs	the sequence of events, *
* 2100 E. Elliot Rd. EL508	in no particular order." *
* Tempe, AZ 85284	- Dan Rather *

Date: 8 Nov 93 04:24:02 GMT
From: ogicse!uwm.edu!math.ohio-state.edu!howland.reston.ans.net!
usenet.ins.cwru.edu!ukma!n-f-m@network.ucsd.edu
Subject: Gell cells for HTs
To: ham-equip@ucsd.edu

I bought a sears delco battery that sits on a trickle charger. Th
thing will run for months with periodic usage.

John
TH78A

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-==+ John S. Roberts, Jr. 100 McVey Hall Work: 257-2275 +==
-==+ University of Kentucky Home: 272-1417 - FAX: 272-7105 +==

Date: Mon, 8 Nov 1993 06:58:36 GMT
From: yeshua.marcam.com!zip.eecs.umich.edu!umn.edu!csus.edu!netcom.com!
msattler@uunet.uu.net
Subject: Gell cells for HTs
To: ham-equip@ucsd.edu

For my outdoor search and rescue work I carry six changes of
batteries (4 x enhanced NiCads, 1 x Duracell alkaline, and
the NiCad battery that came with the Kenwood TH-78A).

I'm interested in running the radio when the power is out
for an extended period of time, like when the big one finally
hits us. A friend found some 12v DC out rechargable gell
cells but he hasn't hacked a charger nor used the batteries.

Any sources for these cells (his were \$10 per at a used-parts
electronics store)? Anyone use these in real-life or training?

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Michael S. Sattler msattler@netcom.com +1 (415) 621-2903
Digital Jungle Software Encrypt now; ask me how. (finger for PGP key)

All that is required for evil to triumph is
for {wo}men of good will to do nothing.

Date: 8 Nov 93 17:23:02 GMT
From: ogicse!emory!kd4nc!ke4zv!gary@network.ucsd.edu
Subject: Gell cells for HTs
To: ham-equip@ucsd.edu

In article <msattlerCG5vDo.8yx@netcom.com> msattler@netcom.com (Michael Sattler) writes:

>For my outdoor search and rescue work I carry six changes of
>batteries (4 x enhanced NiCads, 1 x Duracell alkaline, and
>the NiCad battery that came with the Kenwood TH-78A).
>
>I'm interested in running the radio when the power is out
>for an extended period of time, like when the big one finally
>hits us. A friend found some 12v DC out rechargeable gell
>cells but he hasn't hacked a charger nor used the batteries.
>
>Any sources for these cells (his were \$10 per at a used-parts
>electronics store)? Anyone use these in real-life or training?

They show up at hamfests and surplus outlets all the time. At last weekend's hamfest there were 12 volt 6 Ah gell cell batteries for \$10 as well as 6 volt cells and large 38 Ah 12 volt batteries at \$19. You can carry the smaller ones in small camera bags, or one of these purses on a belt you see. However, I think a better choice is the camcorder and cellular bagphone battery SU-002. This battery is 12 volts at 2.3 Ah and will slip into a jeans hip pocket or a jacket pocket. They're fairly cheap, and there are clip on wall chargers and clip on DC cords widely available for them. I've used both kinds, and the bigger gell batteries get very heavy after carrying them around for a while.

Gary

--

Gary Coffman KE4ZV	"If 10% is good enough	gatech!wa4mei!ke4zv!gary
Destructive Testing Systems	for Jesus, it's good	uunet!rsiatl!ke4zv!gary
534 Shannon Way	enough for Uncle Sam."	emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244	-Ray Stevens	

Date: 9 Nov 1993 07:43:09 GMT
From: olivea!flash!robertov@uunet.uu.net
Subject: Modification of SR210 (150W SSB HF RTX)
To: ham-equip@ucsd.edu

Hi there,
I have got a SR-210 HF SSB (150W) TRANSCEIVER by SCIENTIFIC RADIO SYSTEM INC.
367 Orchard Street

Rochester, New York

This radio is from 1975.

It has 10 channels that can be placed into HF frequencies but unfortunately everything is designed for a fixed configuration. For example there are 10 output networks that are fixed and parts (capacitors) should be changed when you wish to change frequency (changing the crystal) the same is more or less true for the input mixer network. A multisection rotary switch with 10 positions selects all the 10 different networks.

Question:

Does anybody know the better way to modify this radio and make it working by using a VFO instead of only using the 10 available channels that are standard with the ten crystals that are in it.

I have figured out some ways but I am not sure.

If somebody already did some modification on this equipment I am asking for hints.

I want to move from each channel 100KHZ so that the input and output network should not suffer too much about the modification.

Thanks in advance to anybody that will help me.

73

If possible please reply at this addr. robertov@hqlab.ico.olivetti.com

Date: Mon, 8 Nov 1993 13:52:01 GMT

From: nmt.edu!mimbres.cs.unm.edu!moe.ksu.ksu.edu!vixen.cso.uiuc.edu!uwm.edu!linac!att!cbnewse!parnass@network.ucsd.edu

Subject: Plectron moved to Imboden, Arkansas

To: ham-equip@ucsd.edu

To those trying to help find Plectron:

Thanks for your assistance.

I found Plectron by calling Ellen Payne, Associate Editor of Mobile Radio Technology magazine. Plectron's new address is:

Plectron
Plectron Place

P.O. Box 960
Imboden, Arkansas 72434

telephone 1-(501)869-2877

They still sell monitor receivers, so I sent for product literature. Parts and manuals for their older monitor receivers are also available.

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Copyright 1993, Bob Parnass, AJ9S
AT&T Bell Laboratories - parnass@ih4gp.att.com - (708)979-5414

Date: Tue, 2 Nov 93 23:35:00 +0300
From: dog.ee.lbl.gov!agate!doc.ic.ac.uk!uknet!mcsun!news.eunet.fi!KremlSun!kiael
relcom!relay1!river!csoft!news-server@network.ucsd.edu
Subject: Programming Motorola Radios
To: ham-equip@ucsd.edu

Hi all ! Maybe someone can help me ?

I've just purchased used Motorola MX2000 handheld with strange internal software (looks like Motorola Radius or Mobius protocol). I'm looking for a way to reprogram it for 2m HAM radio band access, but have no idea how to access internal ROM Code ? There is slide 12-pad connector in the corner of the device looks like this:

```
o o o o  ||
o o o o  ||
o o o o  ||
```

only four pads are used for external speaker/mic. I think other pads are for internal ROM interface. If so, where can one find signal assignment to make an interface with PC ?

What can this ROM code mean ?
Is it simply channel assignment, synthesizer constants and callsign codes or a whole program of internal microcontroller ? What command set the internal controller compatible with ? Does this controller include such sophisticated things like DSP, scrambler, modem, DECT-controller or smth else ? Is it possible to configurate Radio-module for full duplex ? I think there is something like a modem inside to receive and transmit call IDs and to establish radio channel protocol. So is this made by hardware with fixed chip or can be also programmed ? ---- And more-more questions ----- >(;?)

Thanx, thanx a lot to all who can help me.
And sorry for 'tampering with motorolla proprietary codes', if someone find

such activity illegal. The trouble is that in Russia still no copyright laws and more than, our hams can't buy some ham equipment due to very low average income and economics situation. So we are used to use home-made or second-hand equipment and there is no another way now. And more than our 'tampering' is internal use only and is not for profit.

If this information is accessible on some BBS, please let me know where, couse I have no email just only fidonet address (2:463/24.51) and I have no idea how to gate messages from FIDO to FTP and so on. Better I'll call BBS or smth else Data/Voice/Fax directly. Maybe if there is no info for MX2000, but available for other types, for example Radius P210,P320,HTX-II ? It's also very interesting.

Most sincere, Serge...

--- GoldED 2.42.

* Origin: KoroSoft Pte Ltd (2:463/24.51)

Date: 8 Nov 1993 22:55:25 -0800
From: nntp.crl.com!tcomeng.tcomeng.com!not-for-mail@decwrl.dec.com
Subject: Request for Motorola Mods
To: ham-equip@ucsd.edu

I'm interested in any articles detailing the rf mod.s necessary to bring Syntors into the HAM bands. Can anyone assist? THanx in advance.

Jim
KM6UL

Date: 5 Nov 93 19:33:05 -0800
From: morrow.stanford.edu!ssrl01.slac.stanford.edu!haggart@decwrl.dec.com
Subject: Stolen ICOM 2-meter
To: ham-equip@ucsd.edu

A 2-meter HT was stolen from my car last weekend in Sunnyvale, California. It is distinctive in that it has a no-name 12V battery that makes this normally tiny radio very tall. (The thieves left behind the small plastic cover that goes on the bottom of the radio when the external battery pack is removed.)

ICOM 2 SAT, serial number 4220

If someone tries to sell you this radio, please contact me or the Sunnyvale Police.

Craig Haggart, KC6VH0
(408)739-1904

```
posted to:
rec.radio.amateur.equipment
rec.radio.amateur.misc
rec.radio.scanner
rec.radio.swap
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Date: Mon, 8 Nov 1993 02:31:42 GMT
From: pacbell.com!uop!lll-winken.llnl.gov!overload.lbl.gov!agate!
howland.reston.ans.net!noc.near.net!lynx!chaos.dac!wy1z@network.ucsd.edu
Subject: Type Accepted ham HT's??
To: ham-equip@ucsd.edu

Don't forget now - hams are licensed to understand, to a certain extent, the radios they use. The license grants hams permission, by law, to build radios capable of transmitting within the ham bands. And, if our radios cause problems in or out of the ham radio spectrum, we should be able to solve the problem.

Therefore, any radio hams use to transmit within the ham bands should automagically be accepted units for use in the ham bands.

73,
Scott

— —

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| Scott Ehrlich           Internet: wy1z@neu.edu           |
| Amateur Radio: wy1z      AX.25: wy1z@wa1phy.#ema.ma.usa.na
|-----
| Maintainer of the Boston Amateur Radio Club hamradio FTP area on
|   the World - world.std.com /pub/hamradio               |
|-----
```

Date: 8 Nov 93 19:03:03 GMT
From: amd!amdahl!JUTS!p4sit31!mel30@decwrl.dec.com
Subject: worthless to 10m
To: ham-equip@ucsd.edu

Greetings,

I was recently given a Cobra 148 GTL and was hoping someone might give me some hints on how to modify it from the "worthless band", over to 10 meters. It's a newer radio and clean (no mods). Couldn't find a mod for this radio in the archives,

so is it impossible or just not worth it? E-mail appreciated to:

Mel30@key.amdahl.com

or

mel30@sim.mfg.amdahl.com

73's

End of Ham-Equip Digest V93 #98
